

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 19.11.2020

Revision: 19.11.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
- **Trade name: METAFLUX 70-86 Ceramic Spray - white**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Lubricant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Techno Service GmbH  
Detmolder Strasse 515  
D-33605 Bielefeld  
Germany  
+49 521 924440  
www.metaflux.de  
info@metaflux.de
- **Further information obtainable from:**  
Sales Department  
+49 521 92444-0
- **1.4 Emergency telephone number:**  
+49 700124112112 or +1 872 5888271 (TSF) 24 h



**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Eye Irrit. 2	H319	Causes serious eye irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

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- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The labelling of an aspiration hazard (Asp. Tox. 1 H304) is not required for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex I, 1.3.3).  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**

GHS02   GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Propan-2-ol  
pentane
- **Hazard statements**  
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**  
P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.

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- P251 Do not pierce or burn, even after use.  
 P260 Do not breathe vapours/spray.  
 P280 Wear protective gloves / eye protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents / container as special waste.
- **2.3 Other hazards**  
 · **Results of PBT and vPvB assessment**  
 · **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:**

Mixture of substances listed below with nonhazardous compounds or compounds with no duty to declare.

· **Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32	butane ⚠ Flam. Gas 1, H220; Press. Gas C, H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21	propane ⚠ Flam. Gas 1, H220; Press. Gas L, H280	10-25%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	≥10-≤15%
CAS: 109-66-0 EINECS: 203-692-4	pentane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2.5-10%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%
EC number: 926-605-8 Reg.nr.: 01-2119486291-36	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27	isobutane (<0,1% butadiene) ⚠ Flam. Gas 1, H220; Press. Gas C, H280	≥0.1-≤2.5%
CAS: 110-82-7 EINECS: 203-806-2	cyclohexane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥0.25-≤1%
CAS: 110-54-3 EINECS: 203-777-6	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361f; STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	≥0.25-≤1%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**  
Take affected persons out into the fresh air.  
Do not leave affected persons unattended.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Cool endangered receptacles with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.  
Do not spray onto a naked flame or any incandescent material.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a cool location.  
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Recommended storage temperature:** 15 - 35°C, max. 50°C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

#### 8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

##### 106-97-8 butane

WEL (Great Britain)	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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##### 67-63-0 Propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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##### 109-66-0 pentane

WEL (Great Britain)	Long-term value: 1800 mg/m <sup>3</sup> , 600 ppm
IOELV (EU)	Long-term value: 3000 mg/m <sup>3</sup> , 1000 ppm

##### Hydrocarbons, C6, isoalkanes, <5% n-hexane

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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##### Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

RCP-TWA (Great Britain)	Long-term value: 1400 mg/m <sup>3</sup>
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##### 110-82-7 cyclohexane

WEL (Great Britain)	Short-term value: 1050 mg/m <sup>3</sup> , 300 ppm Long-term value: 350 mg/m <sup>3</sup> , 100 ppm
IOELV (EU)	Long-term value: 700 mg/m <sup>3</sup> , 200 ppm

##### 110-54-3 n-hexane

WEL (Great Britain)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
IOELV (EU)	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm

- **DNELs**

##### 67-63-0 Propan-2-ol

Oral	DNEL Endverbraucher/ Consumers /Consommateur	26 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	319 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	888 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	89 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	500 mg /m3 (.)

##### 109-66-0 pentane

Oral	DNEL Endverbraucher/ Consumers /Consommateur	214 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	214 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	432 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	643 mg /m3 (.)
	DNEL Arbeiter / Workers/ Travailleur	3,000 mg /m3 (.)

##### Hydrocarbons, C6, isoalkanes, <5% n-hexane

Oral	DNEL Endverbraucher/ Consumers /Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	1,377 mg/kg BW /day (.)

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Inhalative	DNEL Arbeiter / Workers/ Travailleur	13,964 mg/kg BW /day (.)
	DNEL Endverbraucher/ Consumers /Consommateur	1,137 mg /m <sup>3</sup> (.)
	DNEL Arbeiter / Workers/ Travailleur	5,306 mg /m <sup>3</sup> (.)
<b>Hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b>		
Oral	DNEL Endverbraucher/ Consumers /Consommateur	1,301 mg/kg BW/ day (.)
Dermal	DNEL - Endverbraucher/ Consumers /Consommateur	1,377 mg/kg BW /day (.)
	DNEL Arbeiter / Workers/ Travailleur	13,964 mg/kg BW /day (.)
Inhalative	DNEL Endverbraucher/ Consumers /Consommateur	1,131 mg /m <sup>3</sup> (.)
	DNEL Arbeiter / Workers/ Travailleur	5,306 mg /m <sup>3</sup> (.)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device when high concentrations are present.

Filter AX

· **Protection of hands:**

· **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374

· **Penetration time of glove material** > 480 min / 0,4 mm thickness

· **Eye protection:** Safety glasses in case of splittings

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Aerosol

Colour: White

· **Odour:** Characteristic

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: -47°C  
value concerns to propellant

· **Flash point:** < -50°C  
concerns to propellant

· **Ignition temperature:** 250°C

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.

· **Explosion limits:**

Lower: 0.8 Vol %

Upper: 12.0 Vol %

Pressure (20°C) at 20°C: 2.5 - 4 bar

· **Density at 20°C:** 0.71 g/cm<sup>3</sup>

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- |  |  |
|--|--|
| · <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.          |
| · <b>Solvent content:</b>                        |  |
| · <b>Organic solvents:</b>                       | 32.4 %                                     |
| · <b>9.2 Other information</b>                   | No further relevant information available. |
| · <b>Additional information</b>                  | Vapors are heavier than air.               |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.
- **Additional information:** Stable for a storage time of min. 24 months

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

<b>106-97-8 butane</b>		
Inhalative	LC50/4 h	658 mg/l (rat)
<b>74-98-6 propane</b>		
Inhalative	LC50/4 h	>20 mg/l (rat)
	LC50 /15 min	1,443 mg/l (rat)
<b>67-63-0 Propan-2-ol</b>		
Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)
<b>75-28-5 isobutane (&lt;0,1% butadiene)</b>		
Inhalative	LC50/4 h	>20 mg/l (rat)
<b>110-82-7 cyclohexane</b>		
Oral	LD50	12,705 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** irritant
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard**  
May be fatal if swallowed and enters airways.


### **SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**  
Harmful to aquatic organisms  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
  - **Recommendation**  
empty cans: material recycling  
filled cans: remove in accordance with local regulations
  - **European waste catalogue**
- |           |   |
|-----------|---|
| 16 00 00  | WASTES NOT OTHERWISE SPECIFIED IN THE LIST                                      |
| 16 05 00  | gases in pressure containers and discarded chemicals                            |
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances |
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

### **SECTION 14: Transport information**

- **14.1 UN-Number**
  - **ADR, IMDG, IATA** UN1950
  - **14.2 UN proper shipping name**
  - **ADR** 1950 AEROSOLS
  - **IMDG** AEROSOLS
  - **IATA** AEROSOLS, flammable
  - **14.3 Transport hazard class(es)**
  - **ADR**
- 
- **Class** 2 5F Gases.

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· **Label** 2.1· **IMDG, IATA**· **Class** 2.1· **Label** 2.1

· **14.4 Packing group**  
· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**  
· **Marine pollutant:** No

· **14.6 Special precautions for user** Warning: Gases.  
 · **Danger code (Kemler):** -  
 · **EMS Number:** F-D,S-U  
 · **Stowage Code** SW1 Protected from sources of heat.  
 SW22 For AEROSOLS with a maximum capacity of 1 litre:  
 Category A. For AEROSOLS with a capacity above 1 litre:  
 Category B. For WASTE AEROSOLS: Category C, Clear  
 of living quarters.  
 · **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:  
 Segregation as for class 9. Stow "separated from" class 1  
 except for division 1.4. For AEROSOLS with a capacity  
 above 1 litre: Segregation as for the appropriate  
 subdivision of class 2. For WASTE AEROSOLS:  
 Segregation as for the appropriate subdivision of class 2.

· **14.7 Transport in bulk according to Annex II of**  
**Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**  
 · **Limited quantities (LQ)** 1L  
 · **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity  
 · **Transport category** 2  
 · **Tunnel restriction code** D  
 · **Remarks:** Transportation as "LIMITED QUANTITIES" according  
 3.4 ADR is possible.  
 Sole marking: Sign for "Limited Quantities" (rhombus  
 with two black edges)  
 Entry in the transportation document: Transportation  
 according chapter 3.4 ADR  
 Tunnel category "E" in case of a load of 8000 kg (rgross  
 weight) or more.

· **IMDG**  
 · **Limited quantities (LQ)** 1L  
 · **Excepted quantities (EQ)** Code: E0  
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

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### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category P3a FLAMMABLE AEROSOLS**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	0.6
NK	31.8

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases – Category 1

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Press. Gas L: Gases under pressure – Liquefied gas

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*  
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*  
*Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*  
· **\* Data compared to the previous version altered.**

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